SAS2800 Hi-Gain WiFi MIMO Signal Booster

Description

Hi-Gain WiFi MIMO Signal Booster (SAS2800) is a Smart Antenna design that attaches directly to an IEEE 802.11 b/g Access Point (AP) over a coaxial cable. Through the use of adaptive beamforming, SAS2800 simultaneously enhances the AP's overall range and throughput.

The SAS2800 is designed for 802.11 b/g (11/54Mbps) dualband applications operating in the 2.4 GHz ISM band. The SAS2800 allows an 802.11 b/g transceiver to employ up to four antenna elements for adaptive antenna processing which results in increased RF receiver sensitivity, extended range and more uniform coverage. The combination of a standard AP and a SAS2800 device significantly improves the system performance over the AP alone, which incorporates advanced combining algorithms that eliminate the need for additional AP processing resources.

Features

- 2.4 GHz ISM Band
- IEEE 802.11 b/g operation
- Completely Standards Compliant
- Supports Most Proprietary Modes including Atheros SuperG, Static Turbo and Dynamic Turbo
- Up to 12 dB of beamforming gain
- Improves 802.11 b/g Access Points
- Expands Overall Range
- Increases Throughput
- Prolongs Laptop Battery Life
- Provides Uniform Coverage
- Simple Single Cable to AP Connection
- No Software Required

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Specification

Standards
- 802.11g
- 802.11b

Dimensions (including case)
- Length 5 in (12.70 cm)
- Width 1 in (2.54 cm)
- Height 4 in (10.16 cm)

Weight
- 0.11 lbs (49.90 g)

Humidity
- 95% non-condensing

I/O
- 4 SMA Type Antenna Connectors
- 1 SMA Type RF Cable Connector
- DC Adapter Voltage 7.5 V
- 4 LED Indicators

Indicator LEDs
- Power
- TX
- Channel Number
- Channel Scanning

Compliancy

The SAS2800 is compliant to FCC standards when tested with a compliant AP unit. Retesting of the final packaging is required.
The SAS2800 is compliant to UL safety certifications. Retesting of the final packaging is required.

RF Parameter	Unit	Min	Typ	Max
Frequency	GHz	2.3	2.4 GHz ISM band	2.5
TX Input from AP to SAS2800	dBm	15	18	19

Absolute Maximum Rating

Parameter	Rating
Operating Temperature	0o C to 50 o C
Storage Temperature	-40 o to 50 o C
DC Voltage	8.0 V
RF Input from AP to SAS2800	23dBm

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